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Abstract

This invention relates to the use of tetrahydrofolates in natural stereoisomeric form for the
5 production of a pharmaceutical preparation suitable for influencing the homocysteine level,
particularly for assisting the remethylation of homocysteine. Clinical areas of application
include all anomalies of the homocysteine level, particularly the prevention and treatment of
cardiovascular diseases and the prevention of neural tube deficiencies.

- 10 The present invention also relates to pharmaceutical preparations comprising at least one
compound selected from the group consisting of 5-formyl-(6S)-tetrahydrofolic acid, 5-methyl-
(6S)-tetrahydrofolic acid, 5,10-methylene-(6R)-tetrahydrofolic acid, 5,10-methenyl-(6R)-
tetrahydrofolic acid, 10-formyl-(6R)-tetrahydrofolic acid, 5-formimino-(6S)-tetrahydrofolic
acid or (6S)-tetrahydrofolic acid or pharmaceutically compatible salts thereof, together with
15 pharmaceutically compatible active and adjuvant substances, for influencing the homocysteine
level, particularly when a methylene tetrahydrofolate reductase deficiency exists, such as
when thermolabile methylene tetrahydrofolate reductase exists for example.

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